

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 7, 2005, 06:55:26 ; Search time 106.895 Seconds
(without alignments)
919.008 Million cell updates/sec

Title: US-09-939-537-33
Perfect score: 1385
Sequence: 1 EPKSCDKHTPCPCPAPELL.....DFTCAEQDGLDGLWTTDP 254

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : A.GeneSeq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1385	100.0	254	2 AAR89441	AAR89441 Igg1 hing
2	1379	99.6	254	2 AAR78667	AAR78667 Igg1 hing
3	1358	98.1	400	7 ADD13790	ADD13790 Plasmid p
4	1356	97.9	544	8 ADR66914	ADR66914 Human pro
5	1356	97.9	544	8 ADR66016	ADR66016 Human pro
6	1350	97.5	539	8 ADR10009	ADR10009 Human pro
7	1345.5	97.1	401	7 ADD13781	ADD13781 Plasmid p
8	1271	91.8	441	3 AAB8692	AAB8692 PC-muGP-
9	1266	91.4	448	3 AAB28694	AAB28694 PC-muGP-
10	1265	91.3	577	8 ADR10259	ADR10259 Human pro
11	1263	91.2	502	8 ADM97493	ADM97493 CD1d-IgG-
12	1260	91.0	581	4 AAB81972	AAB81972 Gangliosid
13	1260	91.0	582	4 AAB81987	AAB81987 Gangliosid
14	1260	91.0	582	4 AAB81991	AAB81991 Gangliosid
15	1260	91.0	583	4 AAB81156	AAB81156 Gangliosid
16	1259.5	90.9	637	8 ADQ07403	ADQ07403 hCBEL1/hb
17	1259.5	90.9	637	8 ADQ12180	ADQ12180 Heavy cha
18	1258	90.8	232	2 AAW26232	AAW26232 Human Igg
19	1258	90.8	232	3 AAB28690	AAB28690 Human Igg
20	1258	90.8	232	4 AAB80897	AAB80897 Human Igg
21	1258	90.8	232	4 AAY72915	AAY72915 Human par
22	1258	90.8	232	5 AAE15347	AAE15347 Human Imm
23	1258	90.8	232	5 AAE26272	AAE26272 Human Imm
24	1258	90.8	232	7 ADJ65991	ADJ65991 Herpes vi
25	1258	90.8	232	8 ADJ57512	ADJ57512 Human Igg

26	1258	90.8	232	8 ADR48992	ADR48992 Human Igg
27	1258	90.8	233	5 ABB09463	ABB09463 Human Igg
28	1258	90.8	235	6 AAB38647	AAB38647 pCFC pro
29	1258	90.8	235	6 AAB89055	AAB89055 Plasmid p
30	1258	90.8	235	7 AAD25647	ADD25647 Binding d
31	1258	90.8	235	7 ADG74307	ADG74307 Fibroblas
32	1258	90.8	247	5 AAB26274	AAB26274 Human bet
33	1258	90.8	251	5 AAB81490	AAB81490 Human Imm
34	1258	90.8	251	6 AAE35214	AAE35214 Human wil
35	1258	90.8	259	2 AAY24154	AAY24154 Protein f
36	1258	90.8	259	6 ABU07704	ABU07704 Viral coa
37	1258	90.8	267	5 AAE26273	AAE26273 Human tPA
38	1258	90.8	269	8 ADJ52120	ADJ52120 CH1 delet
39	1258	90.8	287	4 AAB47590	AAB47590 Fusion pr
40	1258	90.8	329	2 AAB91806	AAB91806 Human Imm
41	1258	90.8	329	8 ADPS6389	ADPS6389 Human PRO
42	1258	90.8	329	8 ADS85004	ADS85004 Human ato
43	1258	90.8	329	8 ADS82579	ADS82579 Human Igg
44	1258	90.8	330	4 AAB04071	AAB04071 Zcytor 10
45	1258	90.8	330	5 AAM47856	AAM47856 Human Ig-

ALIGNMENTS

RESULT 1
AAR89441 standard; peptide; 254 AA.
AC AAR89441;
DT 25-SEP-1996 (first entry)
XX
XX
DE Igg1 hinge, CH2 and CH3 domains.
XX
XX CD7; transmembrane domain; chimeric receptor; CD5; CD34; CH2; CH3; Igg1;
KM human; CD4; HIV; proteinaceous alpha-helix; T cell; B cell; neutrophil;
KM dendritic cell; therapy; mammal; infection.
XX
OS Homo sapiens.
XX
XX WO9603883-A1.
XX
XX 15-FEB-1996.
XX
XX 26-JUL-1995; 95MO-US009468.
XX
XX 02-AUG-1994; 94US-00284391.
XX 24-FEB-1995; 95US-00394388.
XX
XX (GEHO) GEN HOSPITAL CORP.
XX
XX Seed B, Banapur B, Romeo C, Kolanus W;
XX WPI; 1996-129034/13.
XX N-PSDB; AAT10780.
XX
XX Membrane-bound chimeric receptor comprising extracellular portion
PT including CD4 fragment - cells expressing receptor can be used for
PT treatment of HIV infection.
XX
XX Claim 3; Fig 25; 134p; English.
XX
XX This sequence represents the human Igg1 hinge, CH2 and CH3 domains. This
XX sequence is included in the membrane bound proteinaceous chimeric
XX receptor of the invention. Alternatively the transmembrane region of the
XX chimeric receptor contains a portion of the CD7, CD5 or CD34
XX transmembrane domains. The extracellular portion of the chimeric receptor
XX contains a fragment of CD4 (amino acids 1-394 or 1-200 of the CD4
XX sequence) which specifically recognises and binds HIV-infected cells, but
XX does not mediate HIV infection. The extracellular domain of the receptor
XX is separated from the cell membrane by 48 or 72 angstroms, or by one or
XX more proteinaceous alpha-helices. The cells expressing the receptor are

XX Preparing library of protein-producing eukaryotic cells, useful for
 PT producing humanized high-affinity antibodies, comprises introducing
 PT specific recombination signals into chromosomal gene loci and integrating
 PT a variety of DNA sequences.

XX Example 19; Fig 16; 75pp; German.

CC This invention describes a novel method of preparing a library of protein
 CC producing eukaryotic cells comprising (a) introducing specific
 CC recombination signals into one or two chromosomal gene loci, (b)
 CC expanding at least one of the modified cells, (c) transfecting many
 CC different DNA sequences, each flanked by recombination signals, into the
 CC expanded cells and (d) integrating the DNA sequences into the gene loci
 CC on the basis of the recombination signals and the appropriate
 CC recombinase. The resulting cells express different proteins, each from an
 CC integrated DNA sequence and the proteins are bound to the cell surface.
 CC The method is particularly used to produce libraries of humanized
 CC monoclonal antibodies, for selection of those with affinity for
 CC particular antigens and useful for diagnostic or therapeutic use.
 CC Libraries of T cell receptors may also be prepared. The method produces
 CC libraries of high diversity; provides easy, quick and automatable
 CC selection from a large number of proteins, allows relatively simple
 CC alteration of the expressed gene (e.g. fusion to other protein-coding
 CC sequences), is suitable for large scale protein production and allows
 CC simple verification and characterization of selected cell lines. The
 CC method does not require incorporation of a resistance marker. This
 CC sequence represents the construct pBS loxp-19el/pBS loxp-19gldelta350/pBS
 CC loxp19gldeltaC1 described in the disclosure of the invention.

XX Sequence 400 AA;

Query Match 98.1%; Score 1358; DB 7; Length 400;
 Best Local Similarity 98.8%; Pred. No. 2,7e-94;
 Matches 251; Conservative 1; Mismatches 0; Indels 2; Gaps 1;

QY 1 EPKSCDKHTTCCPCPAPELLGSPVFLPPPKKDTLMISRTPEVTCVVVDVSHEDPEVKF 60
 DB 98 EPKSCDKHTTCCPCPAPELLGSPVFLPPPKKDTLMISRTPEVTCVVVDVSHEDPEVKF 157
 QY 61 NMYVDGVEVHNATKREBOYNSTYRVSVLTVLHODMNLNGEKYCKVSKNALPAPIEKT 120
 DB 158 NMYVDGVEVHNATKREBOYNSTYRVSVLTVLHODMNLNGEKYCKVSKNALPAPIEKT 217
 QY 121 ISYAKQPREPOVYTLPPSRDELTKQVSLTCLVKGFPYPSDIAVEMESNQPENNYKTP 180
 DB 218 ISYAKQPREPOVYTLPPSRDELTKQVSLTCLVKGFPYPSDIAVEMESNQPENNYKTP 277
 QY 181 PVLSDGSPFLYSLKLTVDKSRMOQGNVFCSVNHEALHNHYTKSLSLSP--GLQDDETC 238
 DB 278 PVLSDGSPFLYSLKLTVDKSRMOQGNVFCSVNHEALHNHYTKSLSLSP--GLQDDETC 337
 QY 239 AEAQDELDTLMTT 252
 DB 338 AEAQDELDTLMTT 351

RESULT 4

ADR66914 standard; protein; 544 AA.

AC ADR66914;

XX 02-DEC-2004 (first entry)

XX Human prostatic carcinoma derived DNA SEQ ID 212 #4.

XX human: cytostatic; diagnosis; prostatic cancer;

XX differential expression analysis.

XX Homo sapiens.

XX MO2004076614-A2.

XX 10-SEP-2004.

XX 22-FEB-2004; 2004MO-DE000433.

XX 27-FEB-2003; 2003DE-01009985.

XX 14-MAY-2003; 2003DE-01022134.

XX (HINZ/) HINZMANN B.

XX (DAHL/) DAHL E.

XX (ROSE/) ROSENTHAL A.

XX (HERM/) HERMANN K.

XX (PILM/) PILARSKY C.

XX Hinzmann B, Dahl E, Rosenthal A, Hermann K, Pilarczyk C, Specht T;

XX Schmitt A, Beckmann G, Brumendorf T, Kinnemann H, Koepcke S;

XX Xinzhang L, Staub E;

XX WPI; 2004-653386/63.

XX New nucleic acids, and encoded proteins, from prostatic cancer tissue,

XX useful for diagnosis, treatment and in screening for specific binding

XX agents.

XX Claim 2; Page 1567; 1607pp; German.

CC This invention describes novel cytostatic polynucleotide and polypeptide
 CC sequences which can be used in a method for diagnosing prostatic cancer
 CC or the risk of developing prostatic cancer. Diagnosis is based on
 CC determining over transcription or over expression of the sequences in
 CC prostatic tissue. Screening for inhibitors of the sequences or detection
 CC substances involves a binding assay, any compounds that bind are
 CC selected, optionally after deconvolution of mixtures. Detection of a
 CC predetermined minimum level of the reporter indicates the presence of
 CC tumor cells. Inhibitors can be chosen from antisense oligonucleotides,
 CC short-interfering RNA or ribozymes, an organic molecule of molecular
 CC weight below 5000, preferably 300, that binds to the polypeptide; an
 CC aptamer against the polypeptide; a (monoclonal) antibody (Ab) against the
 CC polypeptide, preferably humanized or human; an anti-idiotypic, non-human
 CC (monoclonal) antibody directed against Ab or any of the above derivatised
 CC with a reporter group, cell toxin, immunostimulatory molecules and/or
 CC radioisotope. The polynucleotides are identified in human prostatic
 CC cancer by differential expression analysis, using DNA microarray.
 CC between normal and tumorous tissues, with (over)expression being detected
 CC by quantitative PCR. Analysis of prostatic cancer samples showed that
 CC CD24 was upregulated in many of them. Sections of tissue, isolated from
 CC prostatic cancer patients, or subjects at risk, were incubated
 CC sequentially with anti-human CD4 murine monoclonal antibodies;
 CC biotinylated second antibody; streptavidin-conjugated horseradish
 CC peroxidase and then diaminobenzidine as colour former (brown). The
 CC samples were counterstained with hemalum (blue). Malignant cells stained
 CC strongly but non-malignant cells only weakly. In 15 of 63 samples of
 CC adenocarcinoma, membrane and cytoplasmic staining was very strong, and
 CC lymph node metastases were also stained. ADR65805-ADR66954 represent the
 CC polynucleotide and polypeptide sequences used in the method of the
 CC invention.

XX Sequence 544 AA;

Query Match 97.9%; Score 1356; DB 8; Length 544;
 Best Local Similarity 98.8%; Pred. No. 5.4e-94;
 Matches 249; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EPKSCDKHTTCCPCPAPELLGSPVFLPPPKKDTLMISRTPEVTCVVVDVSHEDPEVKF 60

DB 244 EPKSCDKHTTCCPCPAPELLGSPVFLPPPKKDTLMISRTPEVTCVVVDVSHEDPEVKF 303

QY 61 NMYVDGVEVHNATKREBOYNSTYRVSVLTVLHODMNLNGEKYCKVSKNALPAPIEKT 120

DB 304 NMYVDGVEVHNATKREBOYNSTYRVSVLTVLHODMNLNGEKYCKVSKNALPAPIEKT 363

QY 121 ISYAKQPREPOVYTLPPSRDELTKQVSLTCLVKGFPYPSDIAVEMESNQPENNYKTP 180

Db 364 ISKAGQREPOVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP 423
QY PVLDSGSEFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPQLDFTCAE 240
Db 424 PVLDSGSEFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPQLDFTCAE 483
QY 241 AODGELDGLMTT 252
Db 484 AODGELDGLMTT 495

RESULT 5
ADR66016
ID ADR66016 standard; protein; 544 AA.
AC ADR66016;
DT 02-DEC-2004 (first entry)
XX Human prostatic carcinoma derived protein SEQ ID 212 #1.
XX human; cytostatic; diagnosis; prostatic cancer;
XX differential expression analysis.
OS Homo sapiens.
XX MO204076614-A2.
XX 10-SEP-2004.
XX 22-FEB-2004; 2004WO-DE000433.
XX 27-FEB-2003; 2003DE-01009985.
XX 14-MAY-2003; 2003DE-01022134.
XX (HINZ/) HINZMANN B.
XX (DAHL/) DAHL E.
XX (ROSE/) ROSENTHAL A.
XX (HERM/) HERMANN K.
XX (PILAR/) PILARSKY C.
XX Hinzmann B, Dahl E, Rosenthal A, Hermann K, Pilarsky C, Specht T,
XX Schmitt A, Beckmann G, Bruemendorf T, Kinnemann H, Roepcke S;
XX Xinzhang L, Staub E;
XX WPI; 2004-653386/63.
XX New nucleic acids, and encoded proteins, from prostatic cancer tissue,
XX useful for diagnosis, treatment and in screening for specific binding
XX agents.
PS Claim 2; Page 607; 1607pp; German.

XX This invention describes novel cytostatic polynucleotide and polypeptide
XX sequences which can be used in a method for diagnosing prostatic cancer
XX or the risk of developing prostatic cancer. Diagnosis is based on
XX determining over transcription or over expression of the sequences in
XX prostatic tissue. Screening for inhibitors of the sequences or detection
XX of substances involves a binding assay, any compounds that bind are
XX selected, optionally after deconvolution of mixtures. Detection of a
XX predetermined minimum level of the reporter indicates the presence of
XX tumour cells. Inhibitors can be chosen from antisense oligonucleotides,
XX short-interfering RNA or ribozymes; an organic molecule of molecular
XX weight below 5000, preferably 300, that binds to the polypeptide; an
XX aptamer against the polypeptide; a (monoclonal) antibody (Ab) against the
XX polypeptide, preferably humanised or human; an anti-idiotypic, non-human
XX (monoclonal) antibody directed against Ab or any of the above derivatised
XX with a reporter group, cell toxin, immunostimulatory molecules and/or
XX radioisotope. The polynucleotides are identified in human prostatic
XX cancer by differential expression analysis, using DNA microarrays,
XX between normal and tumorous tissues, with (over)expression being detected
XX by quantitative PCR. Analysis of prostatic cancer samples showed that
XX CD24 was upregulated in many of them. Sections of tissue, isolated from

CC prostatic cancer patients, or subjects at risk, were incubated
CC sequentially with anti-human CD4 murine monoclonal antibodies;
CC biotinylated second antibody; streptavidin-conjugated horseradish
CC peroxidase and then diaminobenzidine as colour former (brown). The
CC samples were counterstained with hemalum (blue). Malignant cells stained
CC strongly but non-malignant cells only weakly. In 15 of 63 samples of
CC adenocarcinoma, membrane and cytoplasmic staining was very strong, the
CC lymph node metastases were also stained. ADR65805-ADR66954 represent the
CC polynucleotide and polypeptide sequences used in the method of the
CC invention.
XX
XX
XX Sequence 544 AA;
SQ
QY 1 EPKSCDKTHTCPPEPAPELLGSPVLPFPKPKDTMTMISTRTPTCVVVDVSHDEPVF 60
Db 244 EPKSCDKTHTCPPEPAPELLGSPVLPFPKPKDTMTMISTRTPTCVVVDVSHDEPVF 303
QY 61 NWYVDGVEVHNAKTRPEEQYNSTYRVSVLTWLDQWLNKGEKKCKVSNKALPAPIEKT 120
Db 304 NWYVDGVEVHNAKTRPEEQYNSTYRVSVLTWLDQWLNKGEKKCKVSNKALPAPIEKT 363
QY 121 ISKAGQREPOVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP 180
Db 364 ISKAGQREPOVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP 423
QY 181 PVLDSGSEFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPQLDFTCAE 240
Db 424 PVLDSGSEFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPQLDFTCAE 483
QY 241 AODGELDGLMTT 252
Db 484 AODGELDGLMTT 495

RESULT 6
ADR10009
ID ADR10009 standard; protein; 539 AA.
AC ADR10009;
DT 04-NOV-2004 (first entry)
XX Human protein useful for treating neurological disease Seq 3515.
XX
XX
XX human; oligo-capping method; diagnostic marker; gene therapy;
XX osteoporosis; neurological disease; Alzheimer's disease;
XX Parkinson's disease; dementia; short memory; cancer;
XX sense or motor function; emotional reaction; fear response; panic;
XX osteopathic; neuroprotective; nootropic; antiparkinsonian; cytostatic;
XX tranquiliser.
XX Homo sapiens.
XX EP147413-A2.
XX 18-AUG-2004.
XX 12-FEB-2004; 2004EP-00003145.
XX 14-FEB-2003; 2003JP-00102207.
XX 09-MAY-2003; 2003JP-00131452.
XX (REAS-) REAS ASSOC BIOTECHNOLOGY.
XX Isogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T;
XX Wakamatsu A, Ishii S, Nagai K, Irie R;
XX WPI; 2004-583265/57.
XX N-PSDB; ADR08053.

XX New 1995 cDNA, useful for treating osteoporosis, neurological diseases,
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
XX
PS Claim 1, SEQ ID NO 3515, 2686bp, English.
XX
CC This invention relates to novel, isolated full length human cDNA
CC molecules and the encoded proteins thereof. Specifically, it refers to
CC clones obtained by an oligo-capping method, where none of these
CC clones are identical to any known human mRNA. The present invention
CC describes an immunosassay to identify agonists and antagonists, as well as
CC antibodies, antisense molecules and siRNAs that can all be used to bind
CC to and modulate expression of the cDNA molecules. As such, these
CC molecules are useful for diagnostic markers or therapeutic targets for
CC the various diseases or morbid states. In particular, they are useful in
CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's
CC disease, Parkinson's disease, dementia, short memory and various cancers,
CC as well as for maintaining equilibrium of sense or motor function, and
CC for treating emotional reaction, fear response and panic. Accordingly,
CC they exhibit osteoprotective, neuroprotective, nootropic, antiparkinsonian,
CC cytoskeletal and tranquilizer activities. This polypeptide is a protein
CC encoded by a full length human cDNA sequence of the invention. NOTE: This
CC sequence is not given in the sequence listing of the specification but
CC can be obtained on CD-ROM from the European Patent Office, Vienna Sub-
CC office.
XX
SQ Sequence 539 AA,
XX
Query Match 97.5%; Score 1350; DB 8; Length 539;
Best Local Similarity 98.0%; Pred. No. 1.5e-93;
Matches 247; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
OY 1 EFKSCDKHTCPPCPAPBELLGGPSVFLPPKPKDITLMISRTPEVTCVVDVSHDEDEVKF 60
DB 239 EFKSCDKHTCPPCPAPBELLGGPSVFLPPKPKDITLMISRTPEVTCVVDVSHDEDEVKF 298
OY 61 NMYVDGVEVHNAKTKRREQYNSTYRVVSVLTLYHODMNLGKRYKCKVSNKALPAPYEKT 120
DB 299 NMYVDGVEVHNAKTKRREQYNSTYRVVSVLTLYHODMNLGKRYKCKVSNKALPAPYEKT 358
OY 121 ISKAKQPREPOVYTLTPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 180
DB 359 ISKAKQPREPOVYTLTPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 418
OY 181 PVLDSGSPFLYKSLTVDSKRWQGVFSCVHMEALHNYTKSLSPGLQDITCAE 240
DB 419 PVLDSGSPFLYKSLTVDSKRWQGVFSCVHMEALHNYTKSLSPGLQDITCAE 478
OY 241 AODGELDGLMTT 252
DB 479 AODGELDGLMTT 490
XX
RESULT 7
ADD13781
ID ADD13781 standard; protein; 401 AA.
XX
AC ADD13781;
XX
DT 01-JAN-2004 (first entry)
XX
DE Plasmid pBS MblgIM/ pBS MblgIMdelta250 protein.
XX
KM library; transfection; humanized monoclonal antibody; antigen;
XX T cell receptor; circular.
XX
OS Synthetic.
OS Homo sapiens.
OS Mus sp.
XX
FH Key Location/Qualifiers
FT 1..97
FT Region /note= "human IgG1 CH1"

FT Region 98..112
FT /note= "human IgG1 hinge"
FT Region 113..222
FT /note= "human IgG1 CH2"
FT Region 223..330
FT /note= "human IgG1 CH3"
FT Region 331..374
FT /note= "murine IgG1 M1"
FT Region 375..401
FT /note= "murine IgG1 M2"
XX
PN EP1298207-A1.
XX
PD 02-APR-2003.
XX
PF 01-OCT-2001; 2001EP-00123596.
XX
PR 01-OCT-2001; 2001EP-00123596.
XX
PA (DEKR-) DEUT KREBSFORSCHUNGSZENTRUM.
XX
PI Breitling F, Moldenhauer G, Pousetka A, Kuehlwein T;
XX WPI; 2003-383833/37.
XX N-PSDB; ADD13780.
XX
PT Preparing library of protein-producing eukaryotic cells, useful for
PT producing humanized high-affinity antibodies, comprises introducing
PT specific recombination signals into chromosomal gene loci and integrating
PT a variety of DNA sequences.
XX
PS Example 1; Fig 12B; 75bp; German.
XX
CC This invention describes a novel method of preparing a library of protein
CC -producing eukaryotic cells comprising (a) introducing specific
CC recombination signals into one or two chromosomal gene loci, (b)
CC Expanding at least one of the modified cells, (c) Transfecting many
CC different DNA sequences, each flanked by recombination signals, into the
CC expanded cells and (d) Integrating the DNA sequences into the gene loci
CC on the basis of the recombination signals and the appropriate
CC recombinase. The resulting cells express different proteins, each from an
CC integrated DNA sequence and the proteins are bound to the cell surface.
CC The method is particularly used to produce libraries of humanized
CC monoclonal antibodies, for selection of those with affinity for
CC particular antigens and useful for diagnostic or therapeutic use.
CC Libraries of T cell receptors may also be prepared. The method produces
CC libraries of high diversity; provides easy, quick and automatable
CC selection from a large number of proteins, allows relatively simple
CC alteration of the expressed gene (e.g. fusion to other protein-coding
CC sequences), is suitable for large scale protein production and allows
CC simple verification and characterization of selected cell lines. The
CC method does not require incorporation of a resistance marker. This
CC sequence represents the construct MblgIM/ pBS MblgIMdelta250 described
CC in the disclosure of the invention.
XX
SQ Sequence 401 AA;
XX
Query Match 97.1%; Score 1345.5; DB 7; Length 401;
Best Local Similarity 98.4%; Pred. No. 2.3e-93;
Matches 251; Conservative 0; Mismatches 1; Indels 3; Gaps 2;
OY 1 EFKSCDKHTCPPCPAPBELLGGPSVFLPPKPKDITLMISRTPEVTCVVDVSHDEDEVKF 60
DB 98 EFKSCDKHTCPPCPAPBELLGGPSVFLPPKPKDITLMISRTPEVTCVVDVSHDEDEVKF 157
OY 61 NMYVDGVEVHNAKTKRREQYNSTYRVVSVLTLYHODMNLGKRYKCKVSNKALPAPYEKT 120
DB 158 NMYVDGVEVHNAKTKRREQYNSTYRVVSVLTLYHODMNLGKRYKCKVSNKALPAPYEKT 217
OY 121 ISKAKQPREPOVYTLTPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 180
DB 218 ISKAKQPREPOVYTLTPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 277

Qy	Db	Qy	Db
18	278	238	338
PVLDSGSPFLYKRLVNDKSRMOQGVFECSSVMEALINHHYQSL-SLSP-GLQIDET	PVLDSGSPFLYKRLVNDKSRMOQGVFECSSVMEALINHHYQSLSLSPGKGLQIDET	CAEAQDGEIDGLMTT	CAEAQDGEIDGLMTT
237	337	252	352

RESULT 8

XX	AA	FC-huADP-1 (95-281) fusion protein.
XX	AC	
XX	AD	
XX	AE	
XX	AF	
XX	AG	
XX	AH	
XX	AI	
XX	AJ	
XX	AK	
XX	AL	
XX	AM	
XX	AN	
XX	AO	
XX	AP	
XX	AQ	
XX	AR	
XX	AS	
XX	AT	
XX	AU	
XX	AV	
XX	AW	
XX	AX	
XX	AY	
XX	AZ	
XX	BA	
XX	BB	
XX	BC	
XX	BD	
XX	BE	
XX	BF	
XX	BG	
XX	BH	
XX	BI	
XX	BJ	
XX	BK	
XX	BL	
XX	BM	
XX	BN	
XX	BO	
XX	BP	
XX	BQ	
XX	BR	
XX	BS	
XX	BT	
XX	BU	
XX	BV	
XX	BW	
XX	BX	
XX	BY	
XX	BZ	
XX	CA	
XX	CB	
XX	CC	
XX	CD	
XX	CE	
XX	CF	
XX	CG	
XX	CH	
XX	CI	
XX	CJ	
XX	CK	
XX	CL	
XX	CM	
XX	CN	
XX	CO	
XX	CP	
XX	CQ	
XX	CR	
XX	CS	
XX	CT	
XX	CU	
XX	CV	
XX	CW	
XX	CX	
XX	CY	
XX	CZ	
XX	DA	
XX	DB	
XX	DC	
XX	DD	
XX	DE	
XX	DF	
XX	DG	
XX	DH	
XX	DI	
XX	DJ	
XX	DK	
XX	DL	
XX	DM	
XX	DN	
XX	DO	
XX	DP	
XX	DQ	
XX	DR	
XX	DS	
XX	DT	
XX	DU	
XX	DV	
XX	DW	
XX	DX	
XX	DY	
XX	DZ	
XX	EA	
XX	EB	
XX	EC	
XX	ED	
XX	EE	
XX	EF	
XX	EG	
XX	EH	
XX	EI	
XX	EJ	
XX	EK	
XX	EL	
XX	EM	
XX	EN	
XX	EO	
XX	EP	
XX	EQ	
XX	ER	
XX	ES	
XX	ET	
XX	EU	
XX	EV	
XX	EW	
XX	EX	
XX	EY	
XX	EZ	
XX	FA	
XX	FB	
XX	FC	
XX	FD	
XX	FE	
XX	FF	
XX	FG	
XX	FH	
XX	FI	
XX	FJ	
XX	FK	
XX	FL	
XX	FM	
XX	FN	
XX	FO	
XX	FP	
XX	FQ	
XX	FR	
XX	FS	
XX	FT	
XX	FU	
XX	FV	
XX	FW	
XX	FX	
XX	FY	
XX	FZ	
XX	GA	
XX	GB	

KM Human; AGP-1; type II transmembrane protein; cytosolic; antiviral,
KM antiinflammatory; hepatotropic; antiarteriosclerotic; anti-HIV; HIV;
KM human immunodeficiency virus; apoptotic; proliferative disorder; cancer;
KM hepatitis; acquired immunodeficiency syndrome; AIDS; autoimmune disorder
KM transplant rejection; cardiovascular disease; arteriosclerosis;
KM Fe-hnAGP-1; fusion protein.

OS Homo sapiens.

PN WO200063253-A1.

PD 26-OCT-2000.

PF 24-MAR-2000; 2000WO-US008004.

PR 16-APR-1999; 99US-00293245.

PA (AMGE-) AMGEN INC.

PI Hsu H, Meng S;

DR WPI; 2000-665240/64.

XXXXXX

proliferative disorders, immune disorders and viral infections; protein and all Ig region, used to treat

PS Disclosure: Fia 3: 93no: English

The present sequence is an AGP-1 fusion protein. AGP-1 is a type II transmembrane protein. The fusion proteins comprise an Fc immunoglobulin region fused to the N-terminal portion of the AGP-1 protein. The fusion proteins can be used to induce apoptosis in a tissue, and to treat proliferative disorders, immune disorders, or virus-induced disorders. The proliferative disorders include cancers, such as breast, prostate, lung or colon cancer. The viral infections include hepatitis, and acquired immunodeficiency syndrome (AIDS), and the immune disorders may be autoimmune disorders or transplant rejection. Cardiovascular diseases such as atherosclerosis may also be treated. AGP-1 containing fusion proteins have increased biological activity compared to the soluble AGP-1 proteins used in prior art therapies.

Sequence 441 AA;

Query Match	91.88;	Score 1271;	DB 3;	Length 441;
Best Local Similarity	96.38;	Pred. No. 1.le-87;		
Matches 234; Conservative	3;	Mismatches 6;	Indels 0;	Gaps 0

1 EPKCDKHTHTPCPCAPPELLGSPVFLEPPPKDITLMSRREAYTCVWVDYSHEDPEVKF 60
24 EPKCDKHTHTPCPCAPPELLGSPVFLEPPPKDITLMSRREAYTCVWVDYSHEDPEVKF 83
61 NMVYDGEVYHNAKTKPREEOYNSYRVRVSVLTTLHOMLNGKEVCKCVSKALPAPIEKT 120

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Db      8  NMYVDGVEYHNAKTKPREQYNSTRYVSVLTVLHQDMLNGEKYCKKXSNALPAPIEKT 143
QY      121 ISAKAQPREPQYVTLPPSRDELTKNOVSLTCLVKGFPSPDIAYEWESNGOPENNYYKTP 180
Db      144 ISAKAQPREPQYVTLPPSRDELTKNOVSLTCLVKGFPSPDIAYEWESNGOPENNYYKTP 203
QY      181 PYVDSGSGSFYLSKLTVDKSRWQOGNVSCSYMEHALHHYTKSLSPGLDLETCAE 240
Db      204 PYVDSGSGSFYLSKLTVDKSRWQOGNVSCSYMEHALHHYTKSLSPGKTSBEETIST 263
QY      241 AOD 243
Db      :
Db      264 VDE 266

```

RESULT 9

AAB28694 standard; protein; 448 AA

DT 14-FEB-2001 (first entry)

DE Fc-muAGP-1 (99-291) fusion protein

KM Mouses; AGP-1; type II transmembrane protein, cytosolic; antiviral,
KM antiinflammation; hepatotropic, antiarteriosclerotic; anti-HIV; HIV,
KM human immunodeficiency virus; apoptosis; proliferative disorder; cancer;
KM hepatitis; acquired immunodeficiency syndrome; AIDS; autoimmune disorder
KM transplant rejection; cardiovascular disease; arteriosclerosis;
KM Fe-mnAGP-1; fusion protein.

OS Mus

PN WO200063253-A1

PD 26-OCT-2000.

PF 24-MAR-2000; 2000WO-US008004.

PR 16-APR-1999; 99US-00293245.

PA (AMGE-) AMGEN INC.

PI Hsu H, Meng S.

WPI: 2000-665240/64.

XX

proliferative disorders, immune disorders and HIV-induced AIDS-related disorders. The protein is used to treat

Disclosure: Ejd 5: 93mm. English

The present sequence is an Agp-1 fusion protein comprising an Fc immunoglobulin region fused to the N-terminal portion of the Agp-1 protein. The fusion proteins can be used to induce apoptosis in a tissue, and to treat proliferative disorders, immune disorders, or virally-induced disorders. The proliferative disorders include cancers, such as breast, prostate, lung or colon cancer. The viral infections include hepatitis, and acquired immunodeficiency syndrome (AIDS), and the immune disorders may be autoimmune disorders or transplant rejection. Cardiovascular diseases such as arteriosclerosis may also be treated. The Agp-1 containing fusion proteins have increased biological activity compared to the soluble Agp-1 proteins used in prior art therapies.

SQ Sequence 448 AA:

Query Match	91.4%	Score 1266;	DB 3;	Length 448;
Best Local Similarity	94.7%;	Pred. No. 2.7e-87;		
Matches 233; Conservative	4;	Mismatches 9;	Indels 0;	Gaps 0

QY 1 EPKSCDKHTTCPPCPAPBELLGSPSVFLFPKPKDITLMISRTPEVTCVVDVSHEDPEVKF 60
 DB 24 EPKSCDKHTTCPPCPAPBELLGSPSVFLFPKPKDITLMISRTPEVTCVVDVSHEDPEVKF 83
 QY 61 NMVVDGEVHNNAKTKREBOYNSTRVSVLTVLHODMLNGKEYCKCKVSNKALPAPIEKT 120
 DB 84 NMVVDGEVHNNAKTKREBOYNSTRVSVLTVLHODMLNGKEYCKCKVSNKALPAPIEKT 143
 QY 121 ISKAKGQPREPOVYTLPPSRDELITKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 180
 DB 144 ISKAKGQPREPOVYTLPPSRDELITKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 203
 QY 181 PVLDSGSPFLYSKLTVDKSRMQGNVFCSCVHNEALHNHYTOKSLSLSPGLDPTCAE 240
 DB 204 PVLDSGSPFLYSKLTVDKSRMQGNVFCSCVHNEALHNHYTOKSLSLSPGLDPTCAE 263
 QY 241 AODGEL 246
 DB 264 VPEKQL 269

RESULT 10

ADRI0259
 ID ADR10259 standard; protein; 577 AA.
 AC ADR10259;
 XX
 DT 04-NOV-2004 (first entry)
 DE Human protein useful for treating neurological disease Seq 3765.
 XX
 XX human; oligo-capping method; diagnostic marker; gene therapy;
 XX osteoporosis; neurological disease; Alzheimer's disease;
 KW Parkinson's disease; dementia; short memory; cancer;
 KW sense or motor function; emotional reaction; fear response; panic;
 KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cyostatic;
 KW tranquilizer.
 XX
 OS Homo sapiens.
 XX
 PN EPI447413-A2.
 XX
 PD 18-AUG-2004.
 XX
 PF 12-FEB-2004; 2004EP-00003145.
 XX
 PR 14-FEB-2003; 2003JP-00102207.
 XX
 PR 09-MAY-2003; 2003JP-00131452.
 XX
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.
 XX
 PI Isogai T, Yamamoto J, Nishikawa T, Igono Y, Sugiyama T, Otsuki T;
 PI Wakamatsu A, Ishii S, Nagai K, Irie R;
 DR N-PSDB; ADR08303.
 XX
 DR MPI; 2004-583265/57.
 XX
 PT New 1995 cDNA, useful for treating osteoporosis, neurological diseases,
 PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
 XX
 XX Claim 1; SEQ ID NO 3765; 2686bp; English.

CC This invention relates to novel, isolated full length human cDNA
 CC molecules and the encoded proteins thereof. Specifically, it refers to
 CC cDNA clones obtained by an oligo-capping method, where none of these
 CC clones are identical to any known human mRNAs. The present invention
 CC describes an immunoassay to identify agonists and antagonists, as well as
 CC antibodies, antisense molecules and siRNAs that can all be used to bind
 CC to and modulate expression of the cDNA molecules. As such, these
 CC molecules are useful for diagnostic markers or therapeutic targets for
 CC the various diseases or morbid states. In particular, they are useful in
 CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's
 CC disease, Parkinson's disease, dementia, short memory and various cancers,

CC as well as for maintaining equilibrium of sense or motor function, and
 CC for treating emotional reaction, fear response and panic. Accordingly,
 CC they exhibit osteopathic, neuroprotective, nootropic, antiparkinsonian,
 CC cyostatic and tranquilizer activities. This polypeptide is a protein
 CC encoded by a full length human cDNA sequence of the invention. NOTE: This
 CC sequence is not given in the sequence listing of the specification but
 CC can be obtained on CD-ROM from the European Patent Office, Vienna Sub-
 CC office.
 XX
 SQ Sequence 577 AA;

Query Match 91.3%; Score 1265; DB 8; Length 577;
 Best Local Similarity 91.7%; Pred. No. 4,4e-87;
 Matches 231; Conservative 11; Mismatches 10; Indels 0; Gaps 0;

QY 1 EPKSCDKHTTCPPCPAPBELLGSPSVFLFPKPKDITLMISRTPEVTCVVDVSHEDPEVKF 60
 DB 277 EPKSCDKHTTCPPCPAPBELLGSPSVFLFPKPKDITLMISRTPEVTCVVDVSHEDPEVKF 336
 QY 61 NMVVDGEVHNNAKTKREBOYNSTRVSVLTVLHODMLNGKEYCKCKVSNKALPAPIEKT 120
 DB 337 NMVVDGEVHNNAKTKREBOYNSTRVSVLTVLHODMLNGKEYCKCKVSNKALPAPIEKT 396
 QY 121 ISKAKGQPREPOVYTLPPSRDELITKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 180
 DB 397 ISKAKGQPREPOVYTLPPSRDELITKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTTP 456
 QY 181 PVLDSGSPFLYSKLTVDKSRMQGNVFCSCVHNEALHNHYTOKSLSLSPGLDPTCAE 240
 DB 457 PVLDSGSPFLYSKLTVDKSRMQGNVFCSCVHNEALHNHYTOKSLSLSPGLDPTCAE 516
 QY 241 AODGELGLMTT 252
 DB 517 AODGELGLMTT 528

RESULT 11

ADM97493
 ID ADM97493 standard; protein; 502 AA.
 AC ADM97493;
 XX
 DT 01-JUL-2004 (first entry)
 XX
 DE CD1d-IgG-avidin complex IgG1 fragment SEQ ID NO: 16.
 XX
 XX CD1d complex; cyostatic; antiinflammatory; cancer; autoimmune disease;
 KW inflammatory disease; immunosuppressive; antimicrobial; neuroprotective;
 KW anti-diabetic; antidiarrhetic; antineumatic; ophthalmological;
 KW gastrointestinal; nephrotropic; dermatological; hepatotropic;
 KW beta2-microglobulin.
 XX
 OS Unidentified.
 XX
 PN MO2004029206-A2.
 XX
 PD 08-APR-2004.
 XX
 PF 26-SEP-2003; 2003WO-US030238.
 XX
 PR 27-SEP-2002; 2002EP-00405838.
 XX

PA (VACC-) VACCINEX INC.
 PA (ROBE/) ROBERT B.
 PA (DOND/) DONDA A.
 PA (CESS/) CESSON V.
 PA (MACH/) MACH J.
 XX
 PI Robert B, Donda A, Cesson V, Mach J, Zauderer M,
 XX
 DR MPI; 2004-316095/29.
 DR N-PSDB; ADM97492.
 XX

PT New compound comprising CD1d complexes and an antibody specific for a cell surface marker, useful for preventing or treating tumors and autoimmune/inflammatory or infectious diseases, e.g. multiple sclerosis, diabetes or psoriasis.
PT

PS Example 4; Page 78; 152pp; English.

The present invention relates to a compound comprising one or more Cld complexes and an antibody or its fragment specific for a cell surface marker. The Cld complexes comprise a Cld and a beta-2-microglobulin molecule, and are linked to the antibody or its fragment. The composition and methods are useful for preventing or treating tumours and autoimmune/inflammatory or infectious diseases, such as multiple sclerosis, type 1 diabetes, ankylosing spondylitis, acute anterior uveitis, atrophic gastritis, Goodpasture's syndrome, Grave's disease, Hashimoto's thyroiditis, myasthenia gravis, psoriasis, psoriatic arthritis, rheumatoid arthritis, systemic lupus erythematosus, systemic sclerosis, pemphigus vulgaris, pernicious anemia, primary biliary cirrhosis, ulcerative colitis or autoimmune hepatitis. The present sequence is a polypeptide used in the exemplification of the invention.

SQ Sequence 502 AA;

Query Match	91.2%;	Score 1263;	DB 8;	Length 502;
Best Local Similarity	92.2%;	Pred. No. 5.3e-87;		
Matches 237; Conservative	2;	Mismatches 14;	Indels 4;	Gaps 1.

QY	1	EPKSCDKHTHTCPRCAPABELLGGPSVFLPFPKPDITMISRTBEVTCVVVDVSHEDPEVNF	60
Db	123	BPKSCDKHTHTCPRCAPABELLGGPSVFLPFPKPDITMISRTBEVTCVVVDVSHEDPEVNF	182
QY	61	NNYVDGVEVHNANKTRPREEQYNSTYRVSVLTITVLDQMLNGEKYCKCVSNKALPAPIEKT	120
Db	183	NNYVDGVEVHNANKTRPREEQYNSTYRVSVLTITVLDQMLNGEKYCKCVSNKALPAPIEKT	242
QY	121	ISKAKGQPREPOVYITLPISRDDELTKNQVSLTCLVKGFYPSDIAVEHESNGQPENNYKTTP	180
Db	243	ISKAKGQPREPOVYITLPISRDDELTKNQVSLTCLVKGFYPSDIAVEHESNGQPENNYKTTP	302
QY	181	PVLDSDGSFFFLYSKLTIVDKSRLWQOGNVFQSCVMEALAHNNHYTKSLSLSPGLQIDET---	237
Db	303	PVLDSDGSFFFLYSKLTIVDKSRLWQOGNVFQSCVMEALAHNNHYTKSLSLSPGKGGGSGTG	362
QY	238	-CAEAQDGEIDGLITTTD	253
Db	363	GGGSARCKSLTGKWTND	379

RESULT 12

ID AAB81972 standard; protein; 581 AA.

AC AAB81972;

DT 03-JUL-2001 (first entry)

Accession	Protein Name	Gene Name	Length (aa)	MW (kDa)	pI	Inst	Source	Species	Ref
AA022456	Ganglioside GD2 specific antibody related protein	SEQ ID NO: 31	31	3.5	4.5	1	Human	Homo sapiens	1

AA Ganglioside; GD2; complementation determining region; CDR; antibody
KM mouse; cancer.
KW

Synthetic.

PN WO200123573-A

05-APR-2001

29-SEP-2000; 2000WO-JP006773.

30-SEP-1999; 99JP-00278290.

PA (KYOW) KYOWA HAKKO KOGYO KK.

XX

PI Hanai N, Shitara K, Nakamura K, Niwa R,

DR WPI; 2001-266163/27.

Human type complementation-determining domain transplanted antibody and derivatives against ganglioside GD2, useful in diagnosis and therapy of e.g. tumors, has low antigenicity, little side effects but potent PT activity in cancer.

PS Example 3; Page 111-114; 123pp; Japanese.

The present invention describes an antibody, which can react specifically with ganglioside G_{M2}, and is transplanted with a human type CC complementation-determining domain (CDR), or its fragments. The antibody CC and its derivatives are useful in diagnosis and therapy of tumours, CC particularly cancer diagnosis. The present sequence is a protein used in CC the exemplification of the invention

SQ Sequence 581 AA;

Query Match	91.0%;	Score 1260;	DB 4;	Length 581;
Best Local Similarity	92.5%;	Pred. No. 1.1e-86;		
Matches 235; Conservative	2;	Mismatches 5;	Indels 12;	Gaps 1.

QY	1	EPKSDCKHTHTCP	CAPELILGGSP	SFLPPRKKDILMT	SRPEBVCV	YVDSHED	EVAF	60
Db	217	EPKSDCKHTHTCP	CAPELILGGSP	SFLPPRKKDILMT	SRPEBVCV	YVDSHED	EVAF	276
QY	61	NMYDVGVEVHN	AKT	PRREOYNSTR	RVSV	VLTVLHOD	WLNKREYKCV	SNKALP
Db	277	NMYDVGVEVHN	AKT	PRREOYNSTR	RVSV	VLTVLHOD	WLNKREYKCV	SNKALP
QY	121	ISKAGOPREPOV	YTLTPSRDEL	TLNQVSL	TLCLVNG	GFPSD	LA	WENESNOGPENNYK
Db	337	ISKAGOPREPOV	YTLTPSRDEL	TLNQVSL	TLCLVNG	GFPSD	LA	WENESNOGPENNYK
QY	181	PYLIDSDGSEFL	YSKLTVD	RSRWQOG	NVFS	CSVMHEAL	HNHYTOK	SLSLSPG
Db	397	PYLIDSDGSEFL	YSKLTVD	RSRWQOG	NVFS	CSVMHEAL	HNHYTOK	SLSLSPG
QY	232	---	LQDDET	CAEAQ	242			
Db	457	KTQLOE	HTLL	LDIQ	470			

RESULT 13

ID AAB81987 standard; protein; 582 AA.

AC AAB81987;

DT 03-JUL-2001 (first entry)

aa DE	Ganglioside GD3 specific antibody related protein SEQ ID NO: 53.
----------	--

AA Ganglioside; GD3; complementarity determining region; CDR; antibody,
KM cancer.

Synthetic.

PN WO200123432-A1

PD 05-APR-2001

29-SEP-2000; 2000WO-JP006774.

AA
PR 30-SEP-1999; 99JP-00278291.

00-ALB-2000, 200001 00100000
 ER
 XX

(NAME / KNOWN LETTERS) :
XX
FA
XX

- 7 -

XX
F I
HALLAM A /
DALLAM A /
HALLAM A /

1

DR WPI; 2001-266143/27.

XX New human type complementation-determining region-transplanted antibody
PT and derivatives against ganglioside GD3, useful in diagnosis and therapy
XX of e.g. tumors, with low antigenicity, little side effects but potent
PT activity in cancer.

PS Claim 41; Page 168-172; 183pp; Japanese.

XX The present invention describes a monoclonal antibody which can react
CC specifically with ganglioside GD3. The antibody and its derivatives are
CC useful in the diagnosis and therapy of tumors, particularly cancer
CC diagnosis. The present sequence is a protein used in the exemplification
CC of the invention

XX Sequence 582 AA;

Query Match 91.0%; Score 1260; DB 4; Length 582;

Best Local Similarity 92.5%; Pred. No. 1.1e-86;

Matches 235; Conservative 2; Mismatches 5; Indels 12; Gaps 1;

QY 1 EPKSCDKHTTCCPPAPRLGGPSVFLPFPKPKDTLMISRTPEVTCVVDVSHEDPEVKF 60

DB 218 EPKSCDKHTTCCPPAPRLGGPSVFLPFPKPKDTLMISRTPEVTCVVDVSHEDPEVKF 277

QY 61 NMYVDGVEVHNAKTKPREQYNSTYRVSVLTGLVKGFPYSDIAVEMESNGQPENNYKTT 120

DB 278 NMYVDGVEVHNAKTKPREQYNSTYRVSVLTGLVKGFPYSDIAVEMESNGQPENNYKTT 337

QY 121 ISKAGQPREPOVYTLPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTT 180

DB 338 ISKAGQPREPOVYTLPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTT 397

QY 181 PVLDSGSEFLYSKLTVDKSRWQGNVFCSVMEHALNHYTOKSLSPG----- 231

DB 398 PVLDSGSEFLYSKLTVDKSRWQGNVFCSVMEHALNHYTOKSLSPGKAPTSSSTK 457

QY 232 ---LQIDETCAEAQ 242

DB 458 KTQLQLEHLLDLQ 471

RESULT 14

AAB81991
ID AAB81991 standard; protein; 582 AA.

AC AAB81991;

DT 03-JUL-2001 (first entry)

XX Ganglioside GD3 specific antibody related protein SEQ ID NO: 57.

XX Ganglioside; GD3; complementarity determining region; CDR; antibody;

KW cancer.

XX Synthetic.

PN WO200123432-A1.

PD 05-APR-2001.

PF 29-SEP-2000; 2000WO-JP006774.

PR 30-SEP-1999; 99JP-00278291.

PR 06-APR-2000; 2000JP-00105088.

PA (KYOW) KYOWA HAKKO KOGYO KK.

PI Hanai N, Shitara K, Nakamura K, Niwa R;

XX WPI; 2001-266143/27.

XX New human type complementation-determining region-transplanted antibody

PT and derivatives against ganglioside GD3, useful in diagnosis and therapy
PT of e.g. tumors, with low antigenicity, little side effects but potent
XX activity in cancer.

PS Claim 39; Page 175-179; 183pp; Japanese.

XX The present invention describes a monoclonal antibody which can react
CC specifically with ganglioside GD3. The antibody and its derivatives are
CC useful in the diagnosis and therapy of tumors, particularly cancer
CC diagnosis. The present sequence is a protein used in the exemplification
CC of the invention

XX Sequence 582 AA;

Query Match 91.0%; Score 1260; DB 4; Length 582;

Best Local Similarity 92.5%; Pred. No. 1.1e-86;

Matches 235; Conservative 2; Mismatches 5; Indels 12; Gaps 1;

QY 1 EPKSCDKHTTCCPPAPRLGGPSVFLPFPKPKDTLMISRTPEVTCVVDVSHEDPEVKF 60

DB 218 EPKSCDKHTTCCPPAPRLGGPSVFLPFPKPKDTLMISRTPEVTCVVDVSHEDPEVKF 277

QY 61 NMYVDGVEVHNAKTKPREQYNSTYRVSVLTGLVKGFPYSDIAVEMESNGQPENNYKTT 120

DB 278 NMYVDGVEVHNAKTKPREQYNSTYRVSVLTGLVKGFPYSDIAVEMESNGQPENNYKTT 337

QY 121 ISKAGQPREPOVYTLPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTT 180

DB 338 ISKAGQPREPOVYTLPSRDELTKNQVSLTCLVKGFYPSDIAVEMESNGQPENNYKTT 397

QY 181 PVLDSGSEFLYSKLTVDKSRWQGNVFCSVMEHALNHYTOKSLSPG----- 231

DB 398 PVLDSGSEFLYSKLTVDKSRWQGNVFCSVMEHALNHYTOKSLSPGKAPTSSSTK 457

QY 232 ---LQIDETCAEAQ 242

DB 458 KTQLQLEHLLDLQ 471

RESULT 15

AAB83156
ID AAB83156 standard; protein; 583 AA.

AC AAB83156;

DT 02-JUL-2001 (first entry)

XX Ganglioside GM2 antibody-related protein #1.

XX Ganglioside; GM2; antibody; cytostatic; cytotoxic; cancer.

OS Unidentified.

PN WO200123431-A1.

PD 05-APR-2001.

PF 29-SEP-2000; 2000WO-JP006775.

PR 30-SEP-1999; 99JP-00278292.

PA (KYOW) KYOWA HAKKO KOGYO KK.

PI Hanai N, Nakamura K, Niwa R;

XX WPI; 2001-266142/27.

XX Monoclonal antibodies against ganglioside GM2 combined with drugs,

PT radioisotopes or proteins for treatment and diagnosis of cancer.

PS Claim 43; Page 61-65; 80pp; Japanese.

XX The present invention relates to derivatives of an antibody against

CC ganglioside GM2. The antibody may be a monoclonal antibody or its
CC fragments. The antibody is combined with a radioactive isotope, protein
CC or small drug in the treatment and diagnosis of cancer
XX

Sequence 583 AA:

Query Match 91.0%; Score 1260; DB 4; Length 583;
Best Local Similarity 92.5%; Pred. No. 1.1e-86;
Matches 235; Conservative 2; Mismatches 5; Indels 12; Gaps 1;

QY 1 EPRSCDKTHTCPCPAPBELLGSPSVFLFPKPKDTIMISRTPEVTCVVVDVSHEDPEVKF 60
|||
Db 219 EPRSCDKTHTCPCPAPBELLGSPSVFLFPKPKDTIMISRTPEVTCVVVDVSHEDPEVKF 278
61 NMVVDGVEVHNAKTKPREQVNSTYRVSVLTVTHQDMLNGKEYKCKVSNKALPAPIEKT 120
|||
Db 279 NMVVDGVEVHNAKTKPREQVNSTYRVSVLTVTHQDMLNGKEYKCKVSNKALPAPIEKT 338
121 ISKAKGQPREPPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVWESNNGQPENNYKTP 180
|||
Db 339 ISKAKGQPREPPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVWESNNGQPENNYKTP 398
QY 181 PVLDSGSEFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPG----- 231
|||
Db 399 PVLDSGSEFFLYSKLTVDKSRWQQGNVSCSVMHEALHNHYTQKSLSLSPGKAPTSSSTK 458
QY 232 ---LQDDETCABAQ 242
|||
Db 459 KTQLQLHLLLDLQ 472

Search completed: March 7, 2005, 07:13:03
Job time : 109.895 secs